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ENTER ANSWER NUMBER OR RANGE (1):1-32

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L6 ANSWER 1 OF 32 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN

TI. . . useful for transplantation into animals and in treating a disease or disorder, e.g. type 1 diabetes mellitus, comprises inoculating a **culture** vessel with a **culture** of undifferentiated embryonic stem cells; embryoid body formation and animal cell **culture** for use in tissue engineering

AB DERWENT ABSTRACT:

NOVELTY - Forming embryoid bodies comprises inoculating a **culture** vessel with a **culture** of undifferentiated embryonic stem cells.

DETAILED DESCRIPTION - Forming embryoid bodies comprises: (a) inoculating a **culture** vessel with a **culture** of undifferentiated embryonic stem cells, where the **culture** vessel contains a medium for inducing embryoid body formation; and (b) incubating the **culture** vessel while subjecting it to **shaking**. INDEPENDENT CLAIMS are also included for: (1) a method for differentiating embryonic stem cells; and (2) a cellular composition of. . . 13-15 microns and where at least 20% of cells comprising the embryoid bodies express FLK-1.

BIOTECHNOLOGY - Preferred Method: **Shaking** comprises rotary **shaking** at 60-200 RPM. The undifferentiated embryonic stem, cells are of mammalian, e.g. murine or human origin. Differentiating embryonic stem cells. . . diabetes mellitus, liver disease or a disorder of insufficient production of blood cells.

EXAMPLE - The DBA252 embryonic stem (**ES**) cells were **cultured in suspension** in SCML medium in a Petri dish at 37degrees C, 6% CO2 in humidity, with daily feeding and colony morphology. . . was removed and the monolayer washed with Dulbecco's PBS. Pre-warmed 0.05% trypsin/EDTA was added and the monolayer was incubated. The **culture** was incubated until cells became detached. Once the cells were detached, fresh SCML was added to the **culture**. The resulting cell **suspension** was pipette to break up remaining clumps. Cells were transferred to conical tube and centrifuged. The medium was aspirated from. . . Te medium was exchanged for fresh I/SCML and incubated. Cells were then harvested. Cell pellet was dissociated and resuspended. The **suspension** was use to inoculate a 3-L Fernbach **culture** flask containing MAC **EB** medium. The **culture** was removed from the **shaker** and the embryoid bodies (**EB**) were allowed to settle to the bottom corner of the Fernbach flask. The spent medium was aspirated and a fresh MAC **EB** medium was added. The **culture** was incubated and the **EB** were allowed to settle and the medium was exchanged. **EB** were **suspended** and collected. (91 pages)

CT EMBRYOID BODY FORMATION, MOUSE, HUMAN UNDIFFERENTIATED EMBRYO STEM CELL **CULTURE**, **CULTURE** VESSEL, CELL, TISSUE DIFFERENTIATION, APPL. PHARMACEUTICAL, TRANSPLANTATION, TYPE-1 DIABETES MELLITUS, LIVER DISEASE, BLOOD CELL INSUFFICIENT PRODUCTION DISEASE THERAPY, TISSUE ENGINEERING. . .

L6 ANSWER 2 OF 32 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN

AB . . . Nootropic; Neuroprotective; Cytostatic; Immunosuppressive; Hepatotropic; Cerebroprotective; Fungicide.

MECHANISM OF ACTION - Bacterial growth inhibitor.

M. capsulatus Bath cells **cultured** for enzyme isolations were grown in nitrate mineral salts medium (NMS) with 5 micro M CuSO₄ and a vitamin mixture at 42 deg. C in **shake** flasks under an atmosphere of 30 % methane and 70 volume/volume% air to an optical density at 600 nm of 1.5 - 2. Flask **culture** (1 l) was used to inoculate medium (2 l) in a fermentor. Cells were **cultured** in the fermentor at 42 deg. C and sparged at flow rates of 180-200 ml.min⁻¹ for methane and 800-1200 ml.minute⁻¹. . . The pH of the chemostat was maintained at 7. The feed rate of the medium was set to double the **culture** volume every 10-12 hours. Upon reaching a working volume of 10 liters, the system was operated as a chemostat. Cells were harvested from continuous **cultures** and resuspended in 10 mM 4-(N-morpholino)propanesulfonic acid (MOPS) (pH 7.3) buffer followed by subsequent centrifugation for 15 minutes. Washed cells were resuspended in 30 mM MOPS (pH 7.3)- 1 mM benzimidazole buffer. *Enterococcus faecalis* (X690) was **cultured** aerobically on Brain Heart Infusion broth at 37 deg. C. Minimum inhibitory concentrations (MIC) were determined as previously described in A. F. Mendoca and S. J. Knabel. 1994 Oxygen uptake activity of washed cell **suspensions** was determined with Clark oxygen electrode maintained at a constant water temperature of 37 deg. C. Cell samples containing methanobactin. . . chromatography on a reversed-phase. Chemical analysis on crude and purified samples of methanobactin was performed by direct-injection electrospray mass spectrometry (ES-MS). ES-MS was performed on SPE-treated samples using a Finnigan Navigator mass spectrometer equipped with a Finnigan electrospray source. The sample (50. . .

TECH. . .

a gram-positive bacterial infection in a molar concentration of 1:1 - 5:1 metal chelator to methanobactin. The wild-type methanotroph is **cultured** in a medium that contains a concentration of copper of 0 - 1 microM.

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY -. . .

L6 ANSWER 3 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

TX Aerotrom, Air incubated **shaker**, Infers AG
Ajust-O-Film, Horizontal **agitated** thin-film processor, LCI Corp.
Aquatron, Waterbath **shaker**, Infors AG
ArrestAll, Self-contained **shaker** dust collector, AAF International
BioCommand, Bioprocess control software for fermentation/cell **culture**, New Brunswick Scientific Co., Inc.
Bioques, Biological **cultures** for treatment of plant effluent water, Cues Industries Inc.
BT-6 Gas Dispersion Impeller, Fluid-motion impeller for **agitated** gas dispersion, Chemineer Inc.
CelliGen Plus, Cell **culture** bioreactor, New Brunswick Scientific Co., Inc.
Chemscale, Design procedure for selecting turbine **agitators**, Chemineer Inc.
Clean-A-Batch, **Shaker**-type dust collection, Griffin Environmental Co., Inc.
Cleveland Mixers, Bulk drum **agitators**, side entry, top entry, and static mixers, Cleveland-Eastern Mixers
Cogeim Filter, **Agitated** nutsch filter, Bishop International Co.
Cryo-Lock, **Agitators**, Pfaudler, Inc.
Cryo-Lock, **Agitating** system, Pfaudler Werke GmbH
CT Turbine **Agitator**, Small turbine fluid **agitators**, Chemineer Inc.
Cushion Ball, **Suspension**, Western States Machine Co.

DCP, Double-cylinder **agitated** bead mill, Draiswerke, Inc.
Dents-Sertac, Pneumatic components
, Atlas Copro Crepelle

L6 ANSWER 4 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

TX Founded in 1940, Air Products is recognised for its innovative **culture**, operational excellence and commitment to safety and the environment. With annual revenues of \$5.4 billion and operations in 30 countries, . . .

Frazier-Simple, . . . screw batch and blanket batch chargers for introducing raw materials into glass melting furnaces, fuel conserving air, reversing valves and **suspended** refractory backwall systems. All products are manufactured in-house at the Frazier-Simplex Machine Company. This 32,000 square foot facility was acquired. . . .
Science Park Eindhoven 5053, 5692 **EB** Son, Netherlands.
Tel + 31 40 2643 643. Fax +31 40 2643 730.
Email: jur@gemco.nl; Website: www.gemco.nl
Stand No 37

Shakespeare Street, Southport PR8 5AP, United Kingdom.
Tel +44 1704 535040. Fax +44 1704 541046.
Email: sales@lattimer.com; Website: www.lattimer.com
Stand No 50

L6 ANSWER 5 OF 32 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN

AB. . . extract, 2% glucose, supplemented with 10 mM uridine and 10 mM uracil) was inoculated at 107 spores/ml with appropriate spore **suspension**. The **cultures** were grown for 4 hours at 25degreesC at 300 rpm on rotary **shaker**. Swollen spores were centrifuged and resuspended in 200 ml ice-cold sterile water. The supernatant was poured off and the spores. . . . 1% glucose, 20 mM 4-(2-hydroxyethyl)-1-piperazine- ethanesulfonic acid (HEPES)) and incubated for 1 hour at 30degreesC at 100 rpm on rotary **shaker**. The spores were centrifuged, then resuspended in 1 ml of ice cold **EB** buffer (10 mM tris-HCl, pH 7.5, 270 mM sucrose, 1 mM Lithium acetate) at a concentration of 109 conidia.ml-1 and kept in ice. Fifty liters of the swollen spore **suspension** was mixed with 1 to 2 microg DNA in a total volume of 60 microl in sterile Eppendorf and kept on ice for 15 minutes. The **suspension** was subjected to electroporation, 1 ml of ice cold YED was added to the **suspension** after electroporation, and the combinex mix was transferred to a pre-chilled sterile 15 ml Falcon tube and kept on ice for 15 minutes. This was then incubated at 30degreesC for 90 minutes at 100 rpm on rotary **shaker**, with the tubes in a horizontal position. The spores were plated out and transformants were observed after 36-48 hours. (96. . . .

L6 ANSWER 6 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

TX [] . . . OF PIAS V Garage
CD PIASN 150CD
7.99 [pounds sterling]
[] GASOLINE TAKE IT TO THE PEOPLE C Pop/Rock
Estrus CD **ES** 1021CD 10" **ES** 1021
6.79 [pounds sterling]/5.55
[] GILBERT, PAUL & KIDD RAW BLUES P Blues
POWER Mascot CD PRD 71342
8.05 [pounds sterling]
[] . . . TRIAL ED'S NOT DEAD U Pop/Rock
. . . HAMMELL COMES ALIVE
Evangeline CD GELM 4038
5.56 [pounds sterling]
[] HENRY COW WESTERN **CULTURE** SHK/P Avant
Garde
Recommended CD RERHC 4

7.29 [pounds sterling]
 [] HILLMAN, SID QUARTET, THE U Nostalgia
 WALKING ON A TIGHTROPE
 . . . OF GLOBAL P Ambient/Downtempo
 CHILLOUT Beechwood CD 6xCD
 SPBOXCD 01 5.99 [pounds sterling]
 [] VARIOUS SPIRITUAL MOVES VOL. SHK/P Trance
 4 **Agitato** CD AGE 1019
 7.99 [pounds sterling]
 [] VARIOUS STATE PROPERTY (OST) U Soundtrack
 Mercury CD 5866712
 8.93 [pounds sterling]
 [] VARIOUS SURREALISM. . .
 [] . . . Tools/Edel CD 0135825 CLU 12"
 0132590 CLU Drax Mix/1990 Mix
 12" 0133500 CLU Sound Force
 Mix/Cajun Filt-R Mix
 [] DA ONE **SHAKE** IT UP/tba ALP
 Garage
 Desert Boots 12" DBOOT 002
 [] DALMATION REX & THE SHK/P Indie
 EIGENTONES . . . WATCHING XANADU/tba Blanco Y
 Negro CD NEG 138CD1 CD NEG 138CD2
 [] MY JAZZY CHILD MY JAZZY C Electronica
 CHILD/tba Active **Suspension** 7"
 AS 13
 [] NATIVE RADIO PANIC ACID WAY SHK/P Trance
 EP/tba Pinwheel 12" PIN 03
 [] NEUM TIME MACHINE/tba ACDC SRK/P. . .
 ALTERNATIVE . . . B
 RE PROCESSED A
 REAKTOR W
 REGROOVE VOLUME 2 FEAT,
 MEDWAY & FADE V
 RIDE ON C
 ROCK THE BEAT P
 RUN RUN CRYING A
 SAETA F
 SESQUIPEDALIAN ORIGINS W
SHAKE IT UP D
 SHINKU DROP T
 SIMPLI FI B
 SKELF COMING AT YA S
 SLEEP TALK A
 SLEEPING FASTER L
 SMUT N
 SO YOUNG H
 SOVIET IGLOO EP. . .

L6 ANSWER 7 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

TX Th Spiritual Literacy **Culture Warriors**
 F Book Television Banff Masters
 (M1) . . . Tyler. (CC) 1989819
 T ** Bring It On '00, comedy.
 Kirsten Dunst. (CC) 1868372
 W * The In Crowd '00, **suspense**.
 Lori Heuring, Susan Ward. (CC)
 326537
 Th ** Dinner With Friends '01,
 drama. (CC) 1801087
 ** Second Skin '00, **suspense**.
 5756594
Door to Door '02, drama.

(M1)

(9.35) ** Pressure Point '01,

***suspense. (CC) 76599797

(MM)

Spotlight

203890

L6 ANSWER 8 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

TX **Contacts:** Randy Whitehead, Pres.;
Liz Kollar, VP Sales

L6 ANSWER 9 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

TX Acrylics . . . a peroxide or azo catalyst, or by redox polymerization. Various polymerization processes may be used to produce acrylic resins: bulk, **suspension**, emulsion, and solution. All are amenable to continuous production.

ABS . . . is versatile in tailored formulations. Continuous mass polymerization produces a lower costing resin with better natural color and lower gloss. **Suspension** polymerization results in a product that has low gloss, higher toughness, and increased chemical resistance.

There . . . same one used for LLDPE. The slurry process uses low reactor temperatures with a solvent so the polymer granules are **suspended** (but not dissolved) in the solvent. The granules are then separated from the solvent, compounded, and pelletized.

Commercial . . . by heating them to 170 [degrees] C to 190 [degrees] C (338 [degrees] F to 374 [degrees] F) in an **agitated** heater. Crystallization makes the clear pellets opaque.

The . . . commercially is polymerized by free-radical techniques. The most common polymerization method (accounting for more than 90% of tonnage) is aqueous **suspension**, which produces a white powder of sugar-like consistency. **Suspension** PVC is used primarily in dry blend or pellet form for extrusion, injection molding, and calendering.

Highly automated world-scale **suspension** PVC plants utilize **agitated** autoclave reactors ranging in size from 20,000 to 50,000 gallons. Following polymerization, the resin is separated from the aqueous medium.

Typical of free-radical polymerization, PVC molecular weight is controlled by reaction temperature. The number-average molecular weight of **suspension** PVC typically ranges from 20,000 to 50,000.

Suspension resins for rigid applications are required to have high bulk densities at low to medium molecular weight. They are less. .

Another type of PVC, known as dispersion, paste, or plastisol resin, is produced by aqueous micro-**suspension** or emulsion polymerization followed by spray drying. The resin has a small particle size and a consistency like that of. . .

One example is ultrahigh-molecular weight (UHMW) PVC, with molecular weights ranging from three to five times that of conventional **suspension** PVC. By adding plasticizer to offset the higher stiffness of UHMW polymer, manufacturers have produced very soft UHMWPVC-based flexible compounds. . .

The majority of SAN is manufactured through continuous mass polymerization, but the resin also is produced through **suspension** and emulsion polymerization.

SAN . . . drawback of a continuous manufacturing process is its limited ability to vary the formulations. This is not the case with **suspension** polymerization, which utilizes batch processing. SAN is also produced in the emulsion polymerization of ABS intermediates.

Injection . . . equipment, life support parts, autoclavable tray systems, implants, and surgical trials. Blow molding is used to produce suction bottles, tissue **culture** bottles and special hollow shapes. Specialized casting technologies are used with the sulfone polymers to make membrane filter media.

Block . . . are directly produced on a commercial scale. Stability is increased by hydrogenation of the elastomer segment that produces block copolymers (S-**EB**-S, S-**EP**-S).

Nonreinforced . . . 27% of UP use, including buttons, bowling balls, polymer concrete, clear castings, deburring chips, automotive body putty, simulated wooden furniture, **cultured** marble, solid surface, gel coats and coatings.

Nonreinforced applications are usually filled and cast into open molds. Numerous fillers include calcium carbonate (for **cultured** marble), aluminum trihydrate (for man-made onyx, granite, and solid surface), pecan shell flour (to simulate wood), talc (for automotive putty),. . .

L6 ANSWER 10 OF 32 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN

TI A cell **culture** for the treatment of spinal cord degeneration i.e. stroke and multiple sclerosis comprises enrichment with oligodendrocytes.

AB WO 200128342 UPAB: 20010607

NOVELTY - Making an oligodendrocyte-enriched cell **culture**, comprising culturing pluripotent vertebrate cells in at least 50% preconditioned oligodendrocyte **culture** medium, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) an in vitro differentiated **culture** of neural cells, which comprises at least 20% immature and mature oligodendrocytes;

(2) the preparation of (1) comprises culturing pluripotent vertebrate cells in at least 50% preconditioned oligodendrocyte **culture** medium;

(3) treatment of spinal cord degeneration comprising:

(i) transplanting in vitro differentiated neural cells into the spinal cord. . . transplanted cells to grow, providing amelioration of reversal of the spinal cord degeneration; and

(4) preparation of an oligodendrocyte-enriched cell **culture** from **ES** cells.

ACTIVITY - Nootropic; neuroprotective; cerebroprotective; cardiact.

MECHANISM OF ACTION - Myelination. Myelination of degenerate spinal tissue.

USE - The oligodendrocyte-enriched cell **culture** is useful for the treatment of spinal cord degeneration in patients (claimed). The in vitro use of differentiated oligodendrocytes is. . . multiple sclerosis, Alzheimers Disease, leukodystrophies, cerebral palsy, stroke, cardiac arrest and central nervous system trauma.

Neural differentiated mouse embryonic stem (**ES**) cells were transplanted into a rat spinal cord 9 days after traumatic injury. Histological analysis at 2-5 weeks revealed that. . . partial hindlimb coordination not found in sham operated controls or controls transplanted with neocortical cells.

ADVANTAGE - This cell **culture** for the treatment of spinal cord degeneration comprises oligodendrocytes. These cells are critical to the transplantation. Cell **cultures** highly enriched in oligodendrocytes increase the myelination of axons in degenerated spinal cord tissues.

Dwg.0/2

TECH UPTX: 20010607

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Method: The pluripotent cells are **ES** cells, preferably treated with retinoic acid. The cells have been **cultured** to obtain 4-/4+ stage embryoid bodies. The pluripotent vertebrate cells are obtained from a group comprising, mouse, rat, hamster, dog, cat, monkey and human. Production of an oligodendrocyte-enriched cell **culture** comprises:

(i) providing embryoid bodies from the **ES** cells;

(ii) dissociating the embryoid bodies to produce dissociated cells;

(iii) culturing the dissociated cells in modified SATO (not defined) medium;

(iv) **shaking** flasks in which the dissociated cells are **cultured** to **suspend** loosely adhering cells, primarily comprising oligodendrocytes;
(v) transferring an aliquot of the **suspended** cells to a new flask comprising an equivolume of SATO medium; and
(vi) culturing the transferred cells to produce an oligodendrocyte-enriched cell **culture**.

Preferred **Culture**: The **culture** of (1) comprises at least 50% immature and mature oligodendrocytes. The cells are vertebrate cells selected from a group comprising, . . . and mature oligodendrocytes. The neural cells are prepared by culturing pluripotent vertebrate cells in at least 50 % preconditioned oligodendrocyte **culture** medium.

TT TT: CELL **CULTURE** TREAT SPINE CORD DEGENERATE STROKE MULTIPLE
SCLEROSIS COMPRISE ENRICH.

L6 ANSWER 11 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

TX Mastersizer 2000 enables rapid and reliable particle sizing of powders and liquid **suspensions** from 0.02-2000 [micro] m. Changeover from wet to dry measurements takes only seconds. Fully automated dispersion modules eliminate variations from. . .

No dilution needed for concentrated emulsions and **suspensions**

Advantage . . . photography system for use with transmission electron microscopes can double user productivity compared to film-based systems. It incorporates proprietary MegaPlus ES 4.0 camera with CCD sensor array that captures 2048 x 2048 pixels. System produces up to 12-bit grayscale, and captures. . .

Lab **Shaker** with brushless motors

Ultra-low speed Infinity **Shaker** features universal power supply so it will run virtually anywhere at 84-264 VAC and 50/60 Hz; brushless motors for long dependable life; improved front panel design; and automatic restarting after power failure. They are only **shakers** with continuously alternating counterclockwise and clockwise motion. Basic **shaker** runs from 30 to 300 rpm, and will run up to 400 rpm with reduced load. Hyperion Research LLC, 403. . .

Epoxy-coated . . . levels in static or recirculating atmospheres. Gloveless or glove-type openings permit interior access. Chambers are suitable for dry weighing, tissue/cell **culture** feeding, microbiology, and particulate control. Coy Laboratory Products Inc., 14500 Coy Drive, Grass Lake, MI 49240.

Test Sieve **Shaker** low cost model

Compact and portable Minor test sieve **shaker** is fitted with anti-vibration feet to ensure good stability. As efficient as many more-expensive models, it is low cost solution. . .

Designed . . . offers operating temperatures from 10 C up to 50 C. Options available include 02 control, bar code scanning, linear carousel **shakers**, and stackers for deep well plates. Cytolink-model option can be added, providing ability to monitor and record temperature, gas and. . .

L6 ANSWER 12 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

TX Coarse Sieve **Shaker**

Coarse sieve **shaker** is equipped to handle both 8" and 12" diameter test sieves. Affordable RX-812 Coarse Sieve **Shaker** does test sieve analysis ranging in particle size from 4" opening down through USA No. 100. Digital 99-minute clock/timer control,. . .

Liquids . . . is ideal for preparation of electrophoresis agarose gels, chemical compound purification, and general dissolving of solids into aqueous solutions and **suspensions**. Bel-Art Products, Pequannock, NJ 07440

Full-color product guide showcases complete line of high-performance refrigerators, freezers, cryogenic storage systems and automatic

[CO.sub.2] cell **culture** incubators. Legaci refrigeration system, IntrLogic control and Ultima II line are covered, as well as standard products. Revco, GS Laboratory. . .

New . . . 300 different types of cells. Most cells are offered in choice of optical glass or UV quartz, IR quartz, or **ES** quartz. Standard cells are covered as well as specials, such as anaerobic, micro, water jacketed, and dye laser cells. NSG. . .

Nicomp . . . on their cross-section area. New Zeta Potential Instrument, Nicomp/ZLS measures electrophoretic mobility and zeta potential of charged particles in liquid **suspension**. Particle Sizing Systems, Santa Barbara, CA 93117

L6 ANSWER 13 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

TX Product guide features high-performance laboratory refrigerators, freezers, cryogenic storage systems and automatic [CO.sub.2] **culture** incubators. Company offers nearly 300 models of microprocessor-controlled products. New technologies include Legaci[TM] refrigeration system, IntrLogic[TM] control and Ultima II. . .

Bulletin covers full array of company's products include Chemineer[R] Turbine **Agitators**, Prochem[R] Side-Entry Mixers, Kenics[R] Static Mixers and Greerco[R] High Shear Mixers. Numerous models are available in both customized and standard. . .

This 12-page brochure describes Model MCRO for high volume filtration where **suspended** solids are very low, sometimes because liquid already has passed through a previous filter process. Vertical plate filter can be. . .

ES Range oil/water separators are self-contained units designed to be installed as part of a compressed air system and effectively reduce. . .

L6 ANSWER 14 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

TX The . . . tubes. The system satisfies multiple applications: serial dilutions, mixing, storage, and harvesting of Hybridoma cells, growing of cells for cell **culture** assays, freezer storage and most EIA/ELISA and RIA procedures. Scientific Specialties, Inc., 1310 Thurman St., Lodi, CA 95240.

The **ES-7000** mini containment hood is designed for applications where space is at a premium. It is suitable for absorption of organic. . .

The . . . The accuracy, repeatability and reproducibility of data provided allows for tighter color specifications and greater color consistency. Petrolab Co., 874 Albany-**Shaker** Rd., Latham Rd., NY 12110.

The Tube-Tickler quickly disperses and **suspends** even firmly sedimented or sticky pellets in any size microcentrifuge tube. The tube is held against a specially designed rotating **agitator** head that vigorously vibrates and swirls the contents. It has easy-to-use one-handed operation and is activated by light pressure on. . .

The . . . cross contamination problems are eliminated and substantial time and energy savings are realized. Applications include cell disruption, mixing, dispersing or **suspending** solutions. Misonix Inc., 1938 New Highway, Farmingdale, NY 11735.

The . . . colony counter, features a compact viewer that provides incident, darkfield and transmitted illumination for different types of growth media and **culture**. Using intense, cool white light for excellent contrast, the system includes a matrix detection algorithm that compensates for objects within. . .

Fluorescence . . . in a variety of spectra. Custom standards may be developed to meet specific customer requirements. Labsphere, Inc., P.O. Box 70, **Shaker** St., North Sutton, NH 03260.

L6 ANSWER 15 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

TX Buenos tardes, damas y caballeros. Estoy encantado discutirles al mercado secundario de autos para America Latina. Esta **es** una region con crecimiento rapido. Tambien hay una cultura distinta que utiliza por la mayor parte el espanol y el portugues. Cuando comunicarse con habitantes de estos paises, **es** un simbolo de respeto hablar en la lengua indigena. **Es** posible que esta accion elimine el esterotipo del "Americano feo." Si esten Uds (Ustedes). de acuerdo con lo que he. . .

(Translation: . . . talk to you about the automotive aftermarket in Latin America. It is a booming region. It is also a different **culture** that uses primarily the Spanish and Portuguese languages. When dealing with people in other countries, it is a symbol of. . .

The . . . produce an increase in the sale of replacement parts for used vehicles, especially parts identified for repairing engines, transmissions, and **suspension** systems. The sale of new and rebuilt engines is also expected to increase at least 27 percent, however, it is. . .

Before you get down to business, it is important to understand the **culture** of Latin America, according to Brenda Arbeleaz-Nock, the president of Pals International, a company that provides automotive suppliers with language. . .

1) Get to know the **culture**. It is important to build a relationship before talking about business. You have to build the trust and confidence of. . .

4) If you are introduced to a woman, wait until she offers her hand for **shaking**. Rise when a woman enters the room. Help her with her coat, Pull out the chair.

5) Eye contact is very important. Americans are not used to eye contact. Look them in the eye when you **shake** hands.

L6 ANSWER 16 OF 32 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN

TI Design of mixing systems for plant cell **suspensions** in stirred reactors

Auslegung von Mischsystemen fuer **suspendierte** Pflanzenzellen in geruehrten Reaktoren

AB A review and discussion with many references. **Agitators** and operating regimes are identified which have the greatest potential for high-density plant cell **culture** applications. Strategies for the improvement of impeller performance by modifying internal reactor geometry are discussed.

ABDE. . . realen Pflanzenzellkulturen wird dringend empfohlen. Die Analyse bestaetigt aber auch die Minderwertigkeit von Standard-Scheibenruehrern fuer Durchmischung und Stofftransport von Pflanzenzellkulturen. **Es** wird eine Reihe neuerer Ruehrerentwicklungen diskutiert und fuer den Einsatz in Pflanzenzellkulturen vorgeschlagen. Text: engl. 5 Abb, 9 Tab, '117. . .

CT **AGITATOR** OR STIRRER; CELLS; GAS LIQUID CONTACTING; PLANT; **AGITATOR**; IMPELLER; MIXING; PLANT CELL **CULTURE**; REVIEW; STIRRED BIOREACTOR; STIRRED **SUSPENSION**

CTDE BEGASUNG; PFLANZE; RUEHRER; ZELLEN; BIOCHEMISCHER REAKTOR; IMPELLERRUEHRER; INFORMATION; MISCHEN; RUEHREN; RUEHRWERK; **SUSPENSION**; ZELLE; ZUECHTEN

L6 ANSWER 17 OF 32 PROMT COPYRIGHT 2004 Gale Group on STN

AB You . . . Jersey native and lifetime Ma Bell employee-he joined immediately after graduating from college in 1969, and never Rich McGinn is **shaking** up strayed from the AT&T fold-isn't a Steve Jobs or Larry Ellison: CEOs who thrive on setting off fireworks and. . .

TX You . . . Jersey native and lifetime Ma Bell employee-he joined immediately after graduating from college in 1969, and never Rich McGinn is **shaking** up strayed from the AT&T fold-isn't a Steve Jobs or Larry Ellison: CEOs who thrive on setting off fireworks and. . .

McGinn himself recalls the early meetings of the Lucent executive team with pride. "I wanted everyone to **suspend** their disbelief," he says. "I wanted to set goals that we didn't know how to achieve." Knowing the quality of. . . retrospect, the early struggles-and there were some heated discussions on this and other points-helped do something essential: define an aggressive **culture** that would enable Lucent to thrive in the fiercely competitive telecom market.

The . . . CEOs of the ELECTRONIC BUSINESS 200, the 200 largest publicly held, U.S.-based companies. (See the ELECTRONIC BUSINESS Web site at www.eb-rnag.com/issues/9S07/0798trends.htm for the complete list of the Top 200.) In addition, ELECTRONIC BUSINESS readers were encouraged to nominate candidates. . .

L6 ANSWER 18 OF 32 CEN COPYRIGHT 2001 ACS on STN

TX B. Braun Biotech, 999 Postal Rd., Allentown, Pa. 18103, (610) 266-6262, fax (610) 266-9319. Exhibiting fermentation and cell **culture** bioreactor equipment. Featuring fermentors and bioreactors for lab, pilot, and cGMP production. New product display includes Biostat A modular vessels, . . . BioPro . . . N.Y. 11735, (516) 249-0099, fax (516) 249-0494, e-mail: R_Lohser@BioPro.com, Internet: www.BioPro.com. Exhibiting fermenters and bioreactors for bacterial and cell **culture** applications, including rotor and spiral filters for cell concentration and cell-free sampling, fluidized beds, airlifts in sizes from lab to. . . display will be special accessories, such as aerosol-free sampling device, diaphragm valves, spray nozzles, and pumps; a line of biological **shakers** and rack systems; freeze dryers for lab, pilot, and production scale; and specialized filtration equipment, sterile pumps, and vibrating mixers.829

Caframo . . . standard rotary evaporator (VV2000 series), magnetic stirrers (MR 3000 series), overhead stirrers (RZR series), disperser-homogenizer (Diax 900), and mixers and **shakers** (Reax 2, 2000).1630, 1632

Diversomer . . . combinatorial chemistry. Products include the Diversomer synthesizer in 8-PIN and 40-PIN arrays, together with modules for liquid handling, temperature control, **agitation**, and data management. Demonstrations available, and be sure to sign up for the hands-on combinatorial chemistry workshop that the company. . . Eberbach, . . . (313) 665-8877, fax (313) 665-9099. Featuring electroanalysis apparatus for determination of copper, lead, antimony, nickel, zinc, and others by electrodeposition; **shakers** for research applications and general purpose; and mixers and blenders.426

Glas-Col, . . . (812) 234-6975, e-mail: pinnacle@glascol.com. Exhibiting standard and custom heating mantles, StirMantles, and manual and automatic temperature controls, as well as **shakers**, rotators, vortexers, and stirrers. 601, 603

Malvern . . . Featuring particle characterization instrumentation and particle-size analysis systems for lab and on-line applications. Mastersizer family of diffraction instruments analyze powder **suspensions** and aerosols from 0.05 to 3,500µ m. Dispersion technology family of instruments analyze particle size and zeta potential for solving. . . Prous Science Publishers, Apartado de Correos 540, Barcelona 08080, Spain, (343) 459-2220, fax (343) 458-1535, e-mail: service@prous.es, Internet: www.prous.es. Presenting Daily Essentials on the Internet, a new interactive drug news service that features search and browse capabilities and daily. . . Quark . . . line includes discounted microscale and macroscale chemistry kits, extraction and evaporation apparatus, reaction apparatus

up to 72 L, bioreactors, cell **culture** and fermentation vessels,
and custom tubes and flasks. 1132

Spex . . . oil standards. Sample-preparation products include new XRF
sample cells, caps, and window film, along with cryogenic freezer mills,
fusion fluxers, **shaker** mills, swing mills, lab presses for
sample pelletizing, and sample preparation accessories for this equipment.
1533

L6 ANSWER 19 OF 32 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
TI Study of hydrodynamics in microcarrier **culture** spinner vessels:
a particle tracking velocimetry approach
Hydrodynamik in einer Ruehrflasche mit auf Microcarriern immobilisierter
tierischer Zellkultur
AB. . . Three-dimensional particle tracking velocimetry (3D-PTV) was applied
to the characterization of the flow field in the impeller region of cell
culture reactor vessels. It is proposed from these studies that
the critical regions for microcarrier **culture** damage due to
impeller hydrodynamics are the trailing vortex region and the high energy
converging flow region. Merits of using. . .
ABDE Es wurde eine moderne dreidimensionale Geschwindigkeitsmessung
(3-D PTV) eingesetzt, um quantitative Aussagen ueber das Stroemungsfeld
in Ruehrernaehue in einer Ruehrflasche (250. . .
CT **AGITATOR** OR **STIRRER**; **ENERGY**; **FLOW**; **VELOCITY**; **CELL**
CULTURE; **CELL CULTURE OPTIMIZATION**; **FLOW MEASUREMENT**;
FLUID FLOW; **HYDRODYNAMICS**; **SUSPENSION CELL CULTURE**
CTDE **ENERGIE**; **GESCHWINDIGKEIT**; **RUEHRER**; **STROEMUNG**; **BESTIMMEN**; **FLUID**;
HYDRODYNAMIK; **SUSPENSION**; **ZELLE**; **ZUECHTEN**

L6 ANSWER 20 OF 32 CEN COPYRIGHT 2001 ACS on STN

TX. . . RR No. 2, Warton, Ontario NOH 2T0, Canada, (800) 567-3556, fax
(519) 534-1088. Displaying rotary evaporators, overhead stirrers, magnetic
stirrers, **shakers**, mixers, and homogenizers. The 20-L rotary
evaporator Labo-Rota 20 SRC will be featured. Years of quality
manufacturing experience have resulted. . .
Chemical . . . The method for analysis of low-density particles (patent
pending) allows rapid, high-resolution analysis of particles of any
density, including water **suspensions** of particles with densities
near or equal to 1.0 g/mL. Also offers particle-size analysis services.
359

Convicon, . . . biological incubators in 9-, 26-, and 46-cu-ft sizes is
being introduced. Other products include humidity and stability
incubators, germinators, tissue **culture** chambers, plant growth
chambers, and dew formation rooms. 830

Diversomer . . . combinatorial chemistry. Products include the
Diversomer synthesizer in 8-PIN and 40-PIN arrays, together with modules
for liquid handling, temperature control, **agitation**, and data
management. Demonstrations available. 715

Glas-Col, . . . 235-6167, fax (812) 234-6975, e-mail:
pinnacle@glascol.com. Exhibiting standard and custom heating mantles,
StirMantles, and manual and automatic temperature controls. Also
shakers, rotators, vortexers, and stirrers. 607, 609

Matec . . . The new CHDF-2000 for high-resolution submicron
particle-size distributions. The AcoustoSizer for measuring particle size
and zeta potential in concentrated aqueous **suspensions**. The
ESA-8000 for zeta potential measurements in aqueous and nonaqueous
suspensions. 402

Prous Science Publishers, Apartado de Correos 540, Barcleona 08080, Spain, (343) 459-2220, fax (343) 458-1535, e-mail: service@prous.es. Publisher of books, journals, and databases in the fields of R&D, pharmacology, and medicinal chemistry. Presenting Trilogy, a Windows-bases CD-ROM. . . .

Waring 06057, (860) 379-0731, fax (860) 738-0249. Exhibiting a line of lab blenders and blending accessories for homogenizing, mixing, and dispensing **suspensions** of various viscous and non-viscous materials, including both free-flowing and dry materials from 10 mL to 4 L, for both. . . .

L6 ANSWER 21 OF 32 CEN COPYRIGHT 2001 ACS on STN

TX Eberbach, 505 South Maple Rd., P.O. Box 1024, Ann Arbor, Mich. 48106-1024, (313) 665-8877. Exhibiting lab **shakers** and mixers for chemical, microbiological, or clinical applications. Specialty borosilicate glass and stainless-steel containers for Waring blenders. Homogenizers for production. . . .

ES Microware, 2234 Wade Ct., Hamilton, Ohio 45013, (513) 738-4773. Introducing version 3.0 of TAPP, a personal computer database of thermochemical. . . .

Gilson size reduction, sample preparation, sampling, materials characterization, and thermal analysis. Featured products are Gilsonic AutoSiever, Microscale spinning riffles, Gilson sieve **shakers**, and Fritsch mills. 746

Glas-Col, Terre Haute, Ind. 47802, (812) 235-6167. Exhibiting standard and custom heating mantles, StirMantles, and manual and automatic temperature controls. Also **shakers**, rotators, vortexers, and stirrers. 409, 411

Springer-Verlag, 2nd ed.; Dugas, "Bioorganic Chemistry," 3rd ed.; Wagner/Bladt, "Plant Drug Analysis," 2nd ed. See Chemical Intelligencer, a magazine of chemistry **culture** and intelligence. For data on inorganic and organometallic compounds, see Gmelin On-Line on STN. Also demonstrating ChemReact10 and ChemReact32 with. . . .

Waring Hartford, Conn. 06057, (203) 379-0731. Exhibiting a line of lab blenders and blending accessories for the homogenizing, mixing, and dispensing **suspensions** of various viscous and nonviscous materials, including both free-flowing and dry materials from 10 mL to 4 L, for both. . . .

L6 ANSWER 22 OF 32 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN

AB associated with it, and a scaffold attachment region positioned either 5' to (II) or 3' to the structural gene. The **ES** subject to the proviso that T-DNA borders are excluded from it.

Also claimed are (A) (I) itself; (B) a plant. . . . and their cells to reduce expression variability. The plants may be gymnosperms and angiosperms (e.g. monocots, dicots).

In an example, **suspension cultures** of Nicotinia Tabacum L, line NT-1, were obtd. from G. An, Washington State University. Cells were grown in a medium. . . . ml of inoculum to 100 ml of fresh medium in 500-ml Erlenmeyer flasks. The flasks were placed on a gyratory **shaker** at 125 rpm in a growth chamber adjusted to 27 deg.C and constant light. Four day old cells, in early. . . .

L6 ANSWER 23 OF 32 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN

TI Relationships between heterologous protein synthesis and the **culture** environment of Chinese hamster ovary cells; human recombinant interferon-gamma production in a CHO-320 cell **culture**; serum-free **culture** medium optimization, glycosylation and microheterogeneity (conference paper)

AB Human interferon-gamma (IFN) production by CHO-320 cells, with

methotrexate gene amplification, was investigated. Good **suspended** growth was obtained in **shake** flasks, spinner **culture** or stirred tank **culture** vessels. The maximum specific growth rate was 0.025-0.03/hr, and the maximum IFN titer was up to 9,000 U/ml. When glutamine was replaced with glutamic acid in RPMI 1640 **culture** medium, growth and IFN biosynthesis became uncoupled. IFN variants appeared during batch **culture**. Cells were adapted to serum-free **culture** medium, and a low-protein **culture** medium (with cattle serum albumin) was developed. The latter improved the glycosylation pattern of IFN. Glycosylation was impaired in glucose-limited chemostat **culture**. Microheterogeneity of recombinant IFN was studied in detail by **ES** -M, and indicated an extensive diversity of glycoforms arising during recombinant biosynthesis. (18 ref)

CT HUMAN RECOMBINANT INTERFERON-GAMMA PREP., EXPRESSION IN CHO-320 CELL **CULTURE**, GENE AMPLIFICATION, SERUM-FREE **CULTURE** MEDIUM OPTIMIZATION, GLYCOSYLATION, MICROHETEROGENEITY EFFECT MAMMAL ANIMAL IMMUNOSTIMULANT VIRUCIDE ANTITUMOR GENE TRANSMISSION CLONING CHINESE HAMSTER OVARY (VOL.13, NO.22)

L6 ANSWER 24 OF 32 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN

TI Comparison of **agitators** for the production of branched ss-1,3-D-glucans by Schizophyllum commune
Vergleich von Ruehrern fuer die Herstellung von verzweigten Beta-1,3-D-Glucanen durch Schizophyllum commune

AB S. commune secreted α -1,3-.scd.-glucan branched at β -1,6. The resulting highly viscous **culture suspension** exhibited pseudo-plastic flow behaviour. Power requirement, productivity and quality (expressed as specific shear viscosity) of aqueous glucan solutions were determined using **agitators** of the following types: Rushton turbine, helical ribbon, fundaspin and 3 fan impellers of different sizes. Using the fan impeller. . .

ABDE. . . stark beeinflusst. Hohe Ruehrgeschwindigkeiten zerstören die Hyphen und damit die Zellen, was auch auf die Sekretion des gewünschten Produktes einwirkt. Es wird ueber Versuche in Fermentern mit 30 l Arbeitsvolumen berichtet, bei denen verschiedene Ruehrer eingesetzt wurden (Rushton-Turbinenruehrer mit 6 Ruehrblaettern, . . .

CT **AGITATOR** OR STIRRER; BIOREACTOR; GROWTH OR INCREASE; VOLUME; **AGITATOR**; GLUCAN; IMPELLER; NON-NEWTONIAN FLUID; PROCESS OPTIMIZATION; SCALE-UP; SCHIZOPHYLLUM COMMUNE

L6 ANSWER 25 OF 32 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN

TI Measurement of cell density in **cultures** of aggregative organisms by continuous-dilution-photometric-assay
Photometrische Messung der Zelldichte in Kulturen von Aggregat-Organismen bei kontinuierlicher Konzentrationsverringern

AB. . . measurement system comprising a photometer with a flow cell, two tubing pumps and a magnetic circulating pump, was applied to **cultures** of the aggregating organisms Favolus arcularius and Streptomyces griseus. The **culture** broth was transferred to the measuring system by one tubing pump, diluted with water fed from the other tubing pump, and **agitated** by the circulating pump for several minutes to break up the cell aggregates. The cell **suspension** was circulated through the flow cell and diluted with water continuously. The cell density in the **culture** broth was then calculated. Results obtained agreed well with those from the drying method for cell densities of 5-45 g. . .

ABDE. . . System zum einfachen, schnellen und genauen Bestimmen der Dichte von Zellkulturen bei kontinuierlicher Konzentrationsverringern beschrieben ist. Entwickelt und erprobt wurde es zum Messen hoher Zelldichten in Hefekulturen. Genannt sind Werte von 10 bis 100 trockene Zellen/l Substrat. Berichtet wird nunmehr ueber. . . Apparatur, das messtechnische Vorgehen, die mathematische Gleichung zum Ermitteln der Zelldichte, die Mikroorganismen, das Kultivieren und die

analytischen Methoden beschrieben. **Es** folgen die Resultate und ihre Diskussion. Aus graphischen und tabellarischen Darstellungen ist zu ersehen, dass die mit Hilfe des vorgeschlagenen. . .

CT CONCENTRATION; DENSITY; SPECIFIC VOLUME; EQUATION; MICROORGANISMS; CELL **CULTURE**; CELL DENSITY; FERMENTATION MONITORING; STREPTOMYCES GRISEUS

L6 ANSWER 26 OF 32 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
AB. . . transformation of *Bacillus thuringiensis*. The transformation efficiency of *B. thuringiensis* by electroporation depended on the source of plasmid DNA. Stationary **cultures** were diluted 1:20 in BHIG (brain heart infusion plus 0.5% glycerol) and incubated for 1 hr at 30 deg with **shaking**. Washed cells were **suspended** in **EB** (0.625 M sucrose-1 mM MgCl₂). A 0.8 ml volume of cells was mixed with less than 10 ul of DNA. . . . Gene-Pulser. The cells were then incubated on ice for 5 min, diluted into 1.6 ml of BHIG, and incubated with **shaking** at 30 deg for 1 hr. The transformation efficiency of *B. thuringiensis* subsp. *kurstaki* HD73-26 with plasmid pNN101 DNA isolated. . . .

L6 ANSWER 27 OF 32 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
AB. . . A review, with 59 references, of the fluid-mechanical and biological aspects of damage to animal cells in bioreactors due to **agitation** and/or aeration. In microcarrier bioreactors, cell damage is due to forces generated by the interaction of microcarrier beads with each other and with small turbulent eddies. For freely **suspended** cells grown in mixed bioreactors, cell damage is usually due to bubble breakup or fast-draining liquid films around rearranging gas-liquid. . . .

ABDE. . . und einige biologische Aspekte der Schädigung tierischer Zellen in Bioreaktoren auf Grund von Rührern und/oder Begasen werden fuer "Microcarrierkulturen" und **suspendierte** Zellen diskutiert. In Microcarrierkulturen treten Schädigungen durch turbulente Flüssigkeitsbewegungen um die Carrier sowie durch Kollision von Carriern gleichzeitig auf. **Es** werden Modellansätze zur Beschreibung bzw. zur näherungsweisen Abschätzung der Schädigung vorgestellt. **Suspendierte** Zellen werden sowohl in Rührreaktoren als auch in Blasensäulen im wesentlichen durch Wechselwirkungen zwischen Blasen und Zellen geschädigt. Der Einfluss. . . .

CT BIOREACTOR; CELLS; FLUID; LITERATURE; AERATION; **AGITATION**; ANIMAL CELL **CULTURE**; CELL DAMAGE; IMMOBILIZED-CELL BIOREACTOR; REVIEW; STIRRED BIOREACTOR; STRESS TOLERANCE; **SUSPENSION CELL CULTURE**

CTDE BIOREAKTOR; FLUID; LITERATUR; ZELLEN; BELUEFTUNG; BESCHÄDIGUNG; BIOCHEMISCHER REAKTOR; INFORMATION; RUEHREN; **SUSPENSION**; TESTEN; TIER; ZELLE; ZUECHTEN

L6 ANSWER 28 OF 32 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
TI Anti-hepatitis B surface antigen monoclonal antibody IgM production in **suspension** and immobilized cell bioreactors
Produktion des monoklonalen Antikörpers Anti-Hepatitis B Surface Antigen IgM in Bioreaktoren mit **suspendierten** und immobilisierten Zellen

AB A hybridoma cell-line H505AC was **cultured** in **suspension** and alginate immobilized cell bioreactors to produce anti-hepatitis B surface antigen monoclonal antibody IgM. The specific IgM production rates correlated linearly with the specific glucose consumption rate in **suspension culture** with maximum production rate of 300µg/10⁶ cells/day. In alginate-cell immobilized air-lift bioreactor, a total of 1143 milligrams IgM was produced. . . .

ABDE **Es** werden Versuche zur Herstellung des monoklonalen Antikörpers AntiHepatitis B Surface Antigen IgM in verschiedenen Fermentationssystemen beschrieben: mit **suspendierten** Mikroorganismen in 0,4-l-Schüttelkolben, im 2-l-Rührkesselfermenter, im 2,8-l-Airliftreaktor und mit in Alginate-Gel immobilisierten

Mikroorganismen im 3-l-Airliftreaktor. Es wird ein Vergleich der Fermentationssysteme angestellt unter den Kriterien Stabilität der Mikroorganismen, Zelldichte, IgM-Konzentration und -produktivität. 4 Abb, 1 Tab, . . .

- CT **AGITATED VESSEL**; BIOREACTOR; FERMENTATION; FERMENTER; IMMOBILIZATION; MICROORGANISMS; REACTOR; STABILITY; SYSTEM; AIRLIFT REACTOR; CELL **CULTURE**; MONOCLONAL ANTIBODY; PROCESS OPTIMIZATION; STIRRED-TANK REACTOR; AIRLIFT BIOREACTOR; ANTIGEN; GLUCOSE; IMMOBILIZED CELL; IMMUNOGLOBULIN M
- CTDE BIOREAKTOR; FERMENTATION; FERMENTER; IMMOBILISIERUNG; MIKROORGANISMEN; REAKTOR; RUEHRKESSEL; STABILITAET; SYSTEM; ZELLEN; BIOCHEMISCHER REAKTOR; BIOTECHNIK; PHARMAZIE; PROZESSOPTIMIERUNG; RUEHRKESSELREAKTOR; RUEHRREAKTOR; **SUSPENSION**; WIRBELBETT; ZELLE; BELUEFTUNG; GLUCOSE; MEDIZIN
- ST. . . PROD. D. ANTIKOERPER. ANT-HEPATITIS B. SURFACE ANTIGEN LGM, 10 QU; ZELLEN, IMMOBILIS., PROD. D. ANTIK. ANTI-HEPATITIS B SURFACE ANTIGEN LGM; **SUSPENSION CULTURE**; IMMOBILIZED CELL REACTOR; PRODUCTIVITY; HYBRIDOMA CELL; SPINNER FLASK; IGM PRODUCTION; MONOKLONALER ANTIKOERPER; ZELLKULTUR; IMMOBILISIERTE ZELLE; BIOREAKTOR; AIRLIFT-REAKTOR; HYBRIDOMZELLE; MAB-PRODUKTION; PRODUKTIVITAET
- L6 ANSWER 29 OF 32 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
- TI Bioreactor considerations for secondary metabolite production from plant cell tissue **culture**: Indole alkaloids from catharanthus roseus
Bioreaktorentwicklung fuer die sekundaere Metabolit-Produktion aus Kulturen pflanzlicher Zellgewebe: Indolalkaloide von Catharanthus roseus
- AB Batch **shake** flask studies with C. roseus showed that alkaloid production occurred only when growth had ceased. To develop a readily scalable process, both immobilized and **suspended** cell systems were studied. In the immobilized cell systems, growth, glucose utilization and alkaloid production were suppressed. For membrane-entrapped cells. . . Based on oxygen requirements and oxygen transfer capabilities, conditions were established that allowed the growth and production dynamics observed in **shake** flasks to be reproduced in an air-sparged column reactor. By coupling filtration to aeration, a two-stage batch operation can be. . .
- ABDE. . . gewaehlt, weil dabei einige kommerziell bedeutende, synthetisch herstellbare Verbindungen entstehen. Beschrieben werden der Organismus, die Bioreaktoren und das analytische Vorgehen. Es folgen Darstellungen der Dynamik des Wachstums und der Produktsynthese sowie der Bioreaktorausrustungen, -anforderungen und betriebsweisen. Die Studien erbrachten, dass 1. . . 2. das "passive" Immobilisieren der Zellen an Membranen oder Baumwollgeweben den zellulaeren Metabolismus besonders bei Zellen im Produktionsmedium unterdrueckt, 3. es gelungen ist, einen Bioprozess zu entwickeln, bei dem die in Schuettelflaschen beobachtete Dynamik des Wachstums und der Produktsynthese in einem. . .
- CT. . . DYNAMICS; FERMENTER; GROWTH OR INCREASE; INVESTIGATION OR STUDY; LITERATURE; MODEL; PLANT; SYNTHESIS; SYSTEM; AIRLIFT REACTOR; BIOREACTOR DESIGN; BUBBLE COLUMN; CELL **CULTURE**; FILTRATION; CATHARANTHUS ROSEUS; IMMOBILIZED CELL; INDOLE ALKALOID; MASS TRANSFER; OXYGEN; PLANT CELL **CULTURE**; PROCESS DESIGN
- L6 ANSWER 30 OF 32 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
- TI Factors affecting the production of biomass by a nitrogen-fixing blue-green Alga in outdoor **culture**
Einflussfaktoren bei der Biomasseproduktion von stickstofffixierenden Blaugruenalgen in freier Kultur
- AB The effectiveness of an aeration-**shaking** (air-lift) system for outdoor biomass photoproduction by the nitrogen-fixing filamentous blue-green alga Anabaena variabilis was evaluated and the influence of. . . on the productivity of the system was assessed. Air at a flow rate of 60 litres per litre of cell **suspension** per h was enough, by itself, to promote adequate turbulence and to supply the gaseous nutrients needed for maximal productivity. In summer and winter, optimal

cell density for a **suspension** depth of 25 cm was 0.2-0.3 g/l and 0.1-0.2 g/l respectively. Optimal values for pH and temperature were 8.2-8.4 and. . .

ABDE. Blaugruene Algen produzieren eine proteinreiche Biomasse und brauchen hierzu neben Sonnenlicht als Energiequelle lediglich Kohlenstoff und Stickstoff aus der Luft. **Es** wurde geprüeft, wie sich die einzelnen Parameter auf die Algenproduktivitaet auswirken. Analysiert wurden dabei Zelldichte, Kulturtiefe und pH-Wert die neben. . .

CT ALGAE; BACTERIA; BIOTECHNOLOGY; CARBON; NITROGEN; PLANT; PROTEIN PRODUCTION; ANABAENA VARIABILIS; BLUE-GREEN ALGAE; CELL **CULTURE** ; SINGLE-CELL PROTEIN

L6 ANSWER 31 OF 32 CANCERLIT on STN

TI ISOLATION OF EPSTEIN-BARR TYPE VIRUS FROM CELL **SUSPENSION** OF LYMPHOBLASTOID **CULTURE** FROM A PATIENT WITH LYMPHOGRANULOMATOSIS.

AB Tumor fragments from a 69-yr-old patient with mixed-cell lymphogranulomatosis were propagated in a **suspended culture** (ChSL-1). Optimal results were obtained when ChSL-1 cells were **cultured** in an atmosphere of 5% CO2 or under conditions of constant **agitation** at 37 C. The morphology was relatively homogeneous, characterized primarily by lymphoblastoid elements with oval nuclei containing one to two. . . not herpes simplex. Immunofluorescence revealed 1.8%-3.2% of cells with clear granular cytoplasmic fluorescence, a reaction similar to that of cytoplasmic **culture** cells transformed by Epstein-Barr virus (EBV). Establishment of the radioimmunoprecipitation reaction using a **3 H-thymidine-labeled virus showed that the blood. . . patients with Burkitt's lymphoma and nasopharyngeal carcinoma and the serum of Pavian hamadryas with a high titer of antibodies to **EB** virus demonstrated approximately 70% radioactive material. The findings indicated that the virus contained in the ChSL-1 **culture** cells was similar to or the same as EBV.

L6 ANSWER 32 OF 32 ADISINSIGHT COPYRIGHT (C) 2004 Adis Data Information BV on STN

DSTA France, HIV-1 infections
Launched, Germany, HIV-1 infections
Launched, Italy, HIV-1 infections
Launched, Japan, HIV-1 infections
Launched, Mexico, HIV-1 infections
Launched, **Spain**, HIV-1 infections
Launched, United Kingdom, HIV-1 infections
Launched, United States, HIV-1 infections
Registered, New Zealand, HIV infections treatment
Registered, El. . . .

. . . 83 countries (and launched in 52), and applications for registration have been submitted in almost every country worldwide. A paediatric **suspension** formulation of nevirapine has been approved in the US and Europe. Nevirapine was the first non-nucleoside reverse transcriptase inhibitor (NNRTI). . . .

. . . 200mg bid for 20 days. He developed fever, headache and mental confusion and was hospitalised two days later and showed **agitation** with intermittent somnolence, behavioural disturbances, hyper-reflexia, disorientation, mild nuchal rigidity, hepatosplenomegaly and a generalised rash. He also had high cerebrospinal. . . .

. . . challenge with tetanus toxoid (used to stimulate viral expression in PBMCs), and no HIV-1 was isolated from CD8+ cell-depleted PBMC **cultures**. This suggested that nevirapine-treated chimpanzees were not latently or silently infected during the time that PBMCs tested positive for viral. . . .

. . . drug can cause life-threatening skin reactions will appear on the labelling in the USA/48/. Paediatric dosing is 4 mg/kg once-daily **suspension** for 2 weeks, followed by 7 mg/kg twice-daily for children between 2 months and 8 years of age, and 4 mg/kg twice daily for

children 8 years and older. The total dose should not exceed 400mg (200mg twice-daily) **suspension** for any patient.

Phase I: in a phase I/II US trial, nevirapine 12.5, 50 or 200 mg/day was associated. . .

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INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 13:16:06 ON 21 OCT 2004

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1002 FILE BIOTECHDS
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11954 FILE CABA
4008 FILE CANCERLIT
29004 FILE CAPLUS
88554 FILE CEABA-VTB
206 FILE CEN
732 FILE CIN
270 FILE CONFSCI
34 FILE CROPB
525 FILE CROPU
188 FILE DDFB
4634 FILE DDFU
3932 FILE DGENE
3074 FILE DISSABS
188 FILE DRUGB
1134 FILE DRUGMONOG2
5652 FILE DRUGU
196 FILE EMBAL
19381 FILE EMBASE
5224 FILE ESBIODBASE
2875 FILE FEDRIP
95 FILE FOMAD
48 FILE FOREGE
176 FILE FROSTI
1697 FILE FSTA
523135 FILE GENBANK
103 FILE HEALSAFE
4028 FILE IFIPAT
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9236 FILE JICST-EPLUS
86 FILE KOSMET
4784 FILE LIFESCI
47 FILE MEDICONF
34123 FILE MEDLINE
141 FILE NIOSHTIC
3550 FILE NTIS

3 FILE NUTRACEUT
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 3257 FILE PCTGEN
 663 FILE PHAR
 42 FILE PHARMAML
 5 FILE PHIC
 371 FILE PHIN
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 3909 FILE USPAT2
 8 FILE VETB
 709 FILE VETU
 277 FILE WATER
 18956 FILE WPIDS
 474 FILE WPIFV
 18956 FILE WPINDEX

L1 QUE (ES OR EB) OR (EMBYONIC (W) STEM (W) CELL) OR (EMBROID (W)

 SEA ((ES OR EB) OR (EMBYONIC (W) STEM (W) CELL) OR (EMBROID (W)

2 FILE CEN
 3 FILE PROMT
 2868 FILE USPATFULL
 93 FILE USPAT2

L2 QUE ((ES OR EB) OR (EMBYONIC (W) STEM (W) CELL) OR (EMBROID (W)

 SEA ((ES OR EB) OR (EMBYONIC (W) STEM (W) CELL) OR (EMBROID (W)

1 FILE ADISCTI
 16 FILE ADISINSIGHT
 2 FILE AGRICOLA
 1 FILE ANABSTR
 7 FILE AQUASCI
 6 FILE BIOENG
 106 FILE BIOSIS
 65 FILE BIOTECHABS
 65 FILE BIOTECHDS
 40 FILE BIOTECHNO
 32 FILE CABA
 41 FILE CANCERLIT
 97 FILE CAPLUS
 82 FILE CEABA-VTB
 3 FILE CEN
 3 FILE CROPU
 2 FILE DDFU
 1 FILE DISSABS
 14 FILE DRUGU
 83 FILE EMBASE
 34 FILE ESBIOBASE
 8 FILE FEDRIP
 4 FILE FSTA
 52 FILE IFIPAT
 2 FILE IMSRESEARCH
 27 FILE JICST-EPLUS
 1 FILE KOSMET
 22 FILE LIFESCI
 84 FILE MEDLINE
 1 FILE NIOSHTIC

26 FILE PASCAL
 1 FILE PHIN
 28 FILE PROMT
 1 FILE RDISCLOSURE
 75 FILE SCISEARCH
 39 FILE TOXCENTER
 10962 FILE USPATFULL
 592 FILE USPAT2
 4 FILE VETU
 39 FILE WPIDS
 39 FILE WPINDEX

L3 QUE ((ES OR EB) OR (EMBYONIC (W) STEM (W) CELL) OR (EMBROID (W)

 SEA ((ES OR EB) OR (EMBYONIC (W) STEM (W) CELL) OR (EMBROID (W)

1 FILE ADISINSIGHT
 4 FILE BIOTECHABS
 4 FILE BIOTECHDS
 1 FILE CANCERLIT
 8 FILE CEABA-VTB
 3 FILE CEN
 1 FILE PASCAL
 12 FILE PROMT
 6183 FILE USPATFULL
 309 FILE USPAT2
 3 FILE WPIDS
 3 FILE WPINDEX

L4 QUE ((ES OR EB) OR (EMBYONIC (W) STEM (W) CELL) OR (EMBROID (W)

 FILE 'ADISINSIGHT, BIOTECHDS, CANCERLIT, CEABA-VTB, CEN, PROMT, WPIDS'

ENTERED AT 13:24:59 ON 21 OCT 2004

L5 32 S ((ES OR EB) OR (EMBYONIC (W) STEM (W) CELL) OR (EMBROID (W) B

L6 32 DUPLICATE REMOVE L5 (0 DUPLICATES REMOVED)